

Key vocabulary

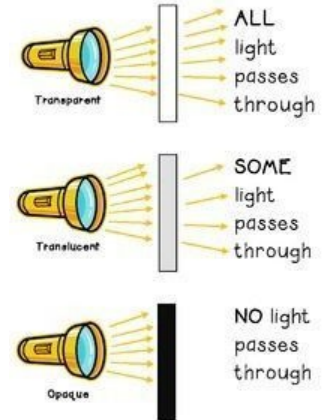
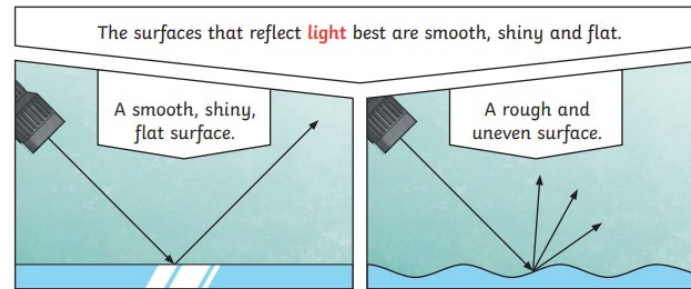
light	A form of energy that travels in a wave from a source.
Light source	An object that makes its own light (e.g. sun, fire).
dark	Dark is the absence of light.
reflect	When a light hits a surface and ‘bounces’ off.
shadow	An area of darkness where light has been blocked.
opaque	An object which does not allow light to pass through
translucent	An object which allows some light to pass through
transparent	An object which allows light to pass through, meaning you can see through it (e.g. glass).

Light is a form of energy that makes it possible to see. Light is given off some objects (e.g. the sun). Darkness is when there is no light.



Light travels in straight lines. When light hits an object, it can be reflected (bounced off). If the reflected light hits our eyes, we can see the object. Some surfaces reflect light well. Other materials do not reflect light well.

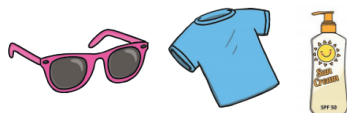
Objects can be labelled as transparent, translucent or opaque depending on the amount of light they let through.



Protection from light

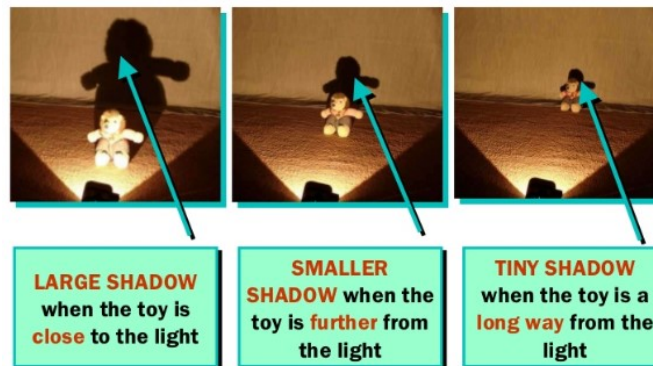
Some types of light (e.g. light from the sun) can be dangerous for our eyes and skin. This is because they contain UV rays that can cause damage. There are lots of things we can do to protect ourselves:

1. Wearing sunglasses—Sunglasses help reduce the amount of light that reaches our eyes.
2. Covering up—Clothes can help block some of the damaging UV rays.
3. Sun cream—This stops our skin from absorbing as many UV rays.



Shadows

Shadows are formed when light is blocked by an opaque object. The size of the shadow depends on the distance and the position of the light source.



Knowledge objective

Self-assessment
(✓)

I can recognise that we need light in order to see things and that dark is the absence of light.

I can notice that light is reflected from surfaces.

I can recognise that light from the sun can be dangerous and that there are ways to protect our eyes.

I can recognise that shadows are formed when the light from a light source is blocked by an opaque object.

I can find patterns in the way that the size of shadows change.